



ILLINOIS

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

PRODUCTION NOTE

University of Illinois at
Urbana-Champaign Library
Large-scale Digitization Project, 2007.

INHS
Faunistics
June, 1962

ILLINOIS NATURAL HISTORY SURVEY

SECTION OF FAUNISTIC SURVEYS AND INSECT IDENTIFICATION

Urbana, Illinois

June 1, 1962

A SELECTED BIBLIOGRAPHY OF INSECT-VASCULAR PLANT ASSOCIATIONS
IN THE UNITED STATES AND CANADA

BY

MILTON W. SANDERSON

AND

JOHN M. KINGSOLVER

ILLINOIS NATURAL HISTORY SURVEY

SECTION OF FAUNISTIC SURVEYS AND INSECT IDENTIFICATION

Urbana, Illinois

F-4

June 1, 1962

A SELECTED BIBLIOGRAPHY OF INSECT-VASCULAR PLANT ASSOCIATIONS

IN THE UNITED STATES AND CANADA

INTRODUCTION

Despite the tremendous economic losses caused by phytophagous insects and the vital importance of insect-plant relationships to agricultural sciences, nowhere in the North American literature is there a comprehensive compilation by plant families of principal works that treat insect associates of single species or genera of vascular plants. Our efforts to find reliable plant host association information for several beetle families disclosed this lack of available bibliographies as well as some inconsistencies in the method of reporting plant-insect relationships.

In the course of studies in our individual specialties, we have found many references that provided us with useful information and ideas. We have compiled them in this report under various categories, believing that they will quickly provide for others an initial source for which we originally searched. Undoubtedly this compilation will aid others in locating references which we have missed. It is our hope that it will stimulate the unearthing of unpublished theses on the subject, and that it will focus attention not only on the work that has already been accomplished, but also on areas that are in need of exploration.

As we arranged references in order by plant families, we became aware that there exist many families and genera for which no studies have been published on the plant-insect relationships. Certainly these families and omitted genera would be fruitful areas of investigation for a master's or doctoral thesis.

In our scrutiny of the literature, we were constantly confronted with inconsistencies in the methods of reporting host data, and uncertainties in reporting the degree of association of the insect with its host plant. We feel that the ideal report should state as fully as possible the relationships of each insect species in all of its stages with each stage of the plant species. It should also recognize that insect associations range from that of simply a resting site to one in which the insect is an obligatory associate of a single plant species. Many so-called "host records" signify only that the insect was collected on the plant, and may or may not indicate an actual breeding association. However, indefinite records of this nature should not be hastily discarded until the status of the association can be ascertained because such records may offer the only clues to the true relationships between the organisms.

The importance of accurate identification of plant species or smaller units is obvious when it is recognized that generalizations concerning insect-host relationships should be based on precise identification. Generic identifications of plants often are insufficient. Likewise, the investigator should work with the smallest taxonomic unit possible in the insects. Associations, if they are to have validity in the future, may require that documented inflorescent bearing plant samples with associated insects be permanently preserved for future reference should taxonomic refinements or misidentifications suggest restudy.

We found no reports which possessed all of the ideal characteristics although some approached closely (Balduf, 1959; Judd, 1961). Many reports gave only a list of the insects that had been collected on the plant and omitted any explanation of their true relationships, while others gave the life histories of a few insects with a list of other insects taken on the plant.

An excellent example of a desired type of study is the report by Judd (1961) in which he correlates the occurrence of insects during the growth of skunk cabbage (Symplocarpus foetidus). This paper demonstrates that knowledge of the mechanisms by which insects are attracted to plants, or are held there, is an essential and intimate component of one's understanding of the plant-insect relationships.

Several basic botanical references for the area covered which we found useful are:

- Anderson, Kling L. 1961. Common names of a selected list of plants. Agr. Exp. Sta. Kans. St. Univ. Tech. Bul. 117:1-59.
- Fernald, M. L. 1950. Gray's manual of botany. 8th ed. Amer. Book Co., New York.
- Gleason, H. A. 1952. The new Britton and Brown illustrated flora. New York Bot. Gard. 3 vols.
- Hitchcock, A. S. 1950. Manual of grasses of the United States. Revised by Agnes Chase. 2nd ed. revised, Feb. 1951. U.S.D.A. Misc. Publ. 200.
- Hitchcock, C. Leo, Arthur Cronquist, Marion Ownbey, J. W. Thompson. 1955-. Vascular plants of the Pacific Northwest. Univ. Wash. Publs. Biol., v. 17, pts. 3-5. Univ. Wash. Press, Seattle.
- Kearney, T. H. and R. H. Peebles. 1942. Flowering plants and ferns of Arizona. U.S.D.A. Misc. Publ. 423:1-1069.
- Kelsey, H. P. and W. A. Dayton. 1942. Standardized plant names. J. Horace McFarland Co., Harrisburg, Pa.
- Munz, Philip and D. D. Keck. 1959. A California flora. Rancho Santa Ana Botanic Garden. Univ. Calif. Press, Berkeley. 1681 pp.
- Rydberg, P. A. 1954. Flora of the Rocky Mountains...2nd ed., revised. The Author, New York.

Sargent, Charles S. 1947. The Silva of North America. Peter Smith, New York. 14 vols.

Small, John K. 1933. Manual of the Southeastern flora. Univ. North Carolina Press, Chapel Hill. 1554 pp.

The compilation is limited to vascular plants, including the pteridophytes. Except as noted, each original paper was examined to check the accuracy of the citation and to determine content suitability. Generally, references to vertebrate and non-insect assemblages were omitted except as they were included in the general plant and insect association. The authors strongly suggest that for the convenience of cataloging, the specific Latin names should be included in the title of the paper. The present paper comprises four sections, each having a specific purpose.

ACKNOWLEDGMENTS

We owe a special debt to Dr. R. A. Evers, Associate Botanist and Curator of the Herbarium, Illinois Natural History Survey, for reading the manuscript and for consulting with us on many problems of mutual concern. To the eminent plant ecologist, Dr. A. G. Vestal, University of Illinois, we are grateful for his cooperation throughout the project. We express our appreciation to the following for their criticism and suggestions: H. B. Cunningham, G. C. Decker, H. B. Mills, H. H. Ross, and L. J. Stannard. And to Mrs. Ruth Warrick, Librarian, Illinois Natural History Survey, we are indebted for her interest and painstaking effort in seeking many titles and for checking their accuracy.

Section I is the main body of references to insect assemblages with a plant species or genus, arranged in alphabetical order by plant family and by plant genus or species. We have attempted to limit our bibliography in this section to several categories: (1) references to reports of associations from a single locality, (2) reports which cover the entire range of the plant, (3) native plants in or out of cultivation, (4) uncultivated introduced plants which attract our native insects, and (5) some introduced plants in cultivation. References were omitted which treated only injurious insects of a specific introduced plant unless this was the only treatment available for that plant. Other references were omitted which were concerned primarily with identification and control of insects associated with specific cultivated plants. Whenever we experienced doubt regarding the applicability of some references, we included them. Special attention is directed to the work of Kaltenbach (1874) cited in Section II. This work is arranged by plant families, and although restricted to European insects, it has one of the most complete listings of plant-feeding insects that we have seen. It may offer clues to the food habits of the American members of insect genera common to both continents.

Section II is a special section devoted to the principal works of Charles Robertson. Both botanist and entomologist, he wrote prolifically between 1886 and 1933 on the subject of interrelations of insects and flowers. His *Flowers and Insects* (1929), arranged in alphabetical order by plant families, summarized

his personal observations between 1899 and 1929, and his principal earlier references were included. Section I would have been unduly enlarged had we included the Robertson references under each plant family, thus our decision to give these references a special category. Many other references of Robertson not included here treat phenology, evolution of entomophilous flowers, and anthecology. They can be found in Ecology, Scientific Monthly, Psyche, and the American Naturalist.

Section III contains a list of general references to phytophagous insects. Some individual reports contain many sections treating specific plant-insect associations such as the work by Packard (1890) on shade tree insects, Craighead (1950) on eastern forests, and the companion work by Keen (1958) on western forests. Others are valuable sources of more general associational data involving plant associates such as prairies (Hendrickson, 1930, 1931; Vestal, 1913), hammocks (Dozier, 1920), and swamps. The works of Brues (1946) and Frost (1959) are basic works including general treatments of phytophagous insects, and they contain extensive bibliographies.

Section IV includes principal references to the phytophagous food habits of several insect orders. Peterson's excellent manuals of insect larval forms (1948, 1951) include extensive food plant lists of the insect orders treated. The list of references under this section is by no means complete, but it will give the worker a basis for further bibliographical searching, especially at the insect family level.

SECTION I. INSECT ASSEMBLAGES ON PLANTS

PTERIDOPHYTA

- MISCELLANEOUS. Swezey, O. H. 1922. Insects attacking ferns in the Hawaiian Islands. Hawaii. Ent. Soc. Proc. 5:57-65
- MISCELLANEOUS. Meikle, A. A. 1937. The insects associated with bracken. Ag. Ed. Assoc. London, Ag. Prog. 14:58-60

SPERMATOPHYTA

ANACARDIACEAE

- Mangifera indica. Moznette, G. F. 1922. Insects injurious to the mango in Florida and how to combat them. U. S. Dept. Agr. Farmers Bul. 1257:22 pp.
- Rhus spp. Steyskal, G. 1951. Insects feeding on plants of the Toxicodendron section of the genus Rhus (poison oak, ivy or sumac). Coleopterists' Bul. 5(5/6):75-77
- Rhus. Krombein, Karl V. 1960. Biological notes on some Hymenoptera that nest in Sumac pith. Ent. News 71(2/3);29-36,63-69

AQUIFOLIACEAE

- Ilex decidua. Ross, H. H. 1953. Polyphyletic origin of the leafhopper fauna of Ilex decidua. Ill. St. Acad. Sci. Trans. 46:186-192

ARACEAE

- Dracunculus. Meeuse, B. J. D. and M. H. Hatch. 1960. Beetle pollination in Dracunculus and Sauromatum. Coleopterists' Bul. 14:70-74.
- Sauromatum. See Dracunculus.
- Symplocarpus foetidus. Judd, W. 1961. Insects and other invertebrates associated with flowering skunk cabbage, Symplocarpus foetidus (L.) Nutt., at Fanshawe Lake, Ontario. Can. Ent. 93(4):241-249.

ASCLEPIADACEAE

- Asclepias pulchra & syriaca. Weiss, H. B. and E. L. Dickerson. 1921 (1922). Notes on milkweed insects in New Jersey. N. Y. Ent. Soc. Jour. 29:123-145.

BETULACEAE

- Betula. Dimmock, A. K. 1885. The insects of Betula in North America. Psyche 4:271-286.

BROMELIACEAE

- Tillandsia usneoides. Rosenfeld, A. H. 1911. Insects and spiders in Spanish Moss. Jour. Econ. Ent. 4:398-409.

CACTACEAE

- Cereus giganteus. Hubbard, H. G. and E. A. Schwarz. 1899. Insect fauna of the giant cactus of Arizona: letters from the Southwest. Psyche 8 (suppl. 1):1-14.
- Miscellaneous. Hunter, W. D., F. C. Pratt, and J. D. Mitchell. 1912. The principal cactus insects of the United States. U. S. Bur. Ent. Bul. 113:1-71.
- Opuntia. Hamlin, J. C. 1926. Biological notes on important Opuntia insects of the United States. Pan-Pacific Ent. 2(3):97-105.
- Opuntia. Hamlin, J. C. 1932. An inquiry into the stability and restriction of feeding habits of certain cactus insects. Ent. Soc. Amer. Ann. 25(1):89-120.

CHENOPODIACEAE

- Beta vulgaris. Bruner, L. 1891. Report on Nebraska insects: beet insects. U. S. Bur. Ent. Bul. 23(o.s.):11-18.

COMPOSITAE

- Ambrosia trifida. Hack, Lewis. 1934. Insects of the giant ragweed (Ambrosia trifida Linn.) Master's thesis, University of Kansas.

- Artemisia californica. Sweet, Helen E. 1930. An ecological study of the animal life associated with Artemisia californica Less. at Claremont, California. Jour. Ent. and Zool. 22:57-151.
- Aster novae-angliae. Loben Sels, E. 1934. Some observations on Phalacrus politus and other inhabitants of the heads of the New England aster. N. Y. Ent. Soc. Jour. 42:319-327.
- Baccharis pilularis. Tilden, James W. 1951. The insect associates of Baccharis pilularis De Candolle. Microentomology 16(1):149-185.
- Bidens pilosa. Needham, J. G. 1948. Ecological notes on the insect population of the flower heads of Bidens pilosa. Ecol. Monog. 18:431-446.
- Cirsium horridulum. Rosewall, O. W. 1922. Insects of the yellow thistle. Ent. News 33:176-180.
- Cirsium undulatum. Pendleton, R. C. and A. W. Grundmann. 1954. Use of P^{32} in tracing some insect-plant relationships of the thistle, Cirsium undulatum. Ecol. 35(2):187-191.
- Helianthus. Breland, O. P. 1939. Additional notes on sunflower insects. Ent. Soc. Amer. Ann. 32(4):719-726.
- Helianthus. Cockerell, T. D. A. 1914. Bees visiting Helianthus. Can. Ent. 46(12):409-415.
- Helianthus. Cockerell, T. D. A. 1915. Sunflower insects. Can. Ent. 47(9):280-282.
- Helianthus. Cockerell, T. D. A. 1916. Sunflower insects in California and South Africa. Can. Ent. 48(3):76-79.
- Helianthus. Cockerell, T. D. A. 1917. Some sunflower insects. Jour. Econ. Ent. 10:561-562.
- Helianthus. Cockerell, T. D. A. 1917. Sunflower insects in Virginia and Connecticut. Can. Ent. 49(6):212.
- Helianthus. Satterthwait, A. F. 1948. Important sunflower insects and their insect enemies. Jour. Econ. Ent. 41(5):725-731.
- Helianthus. Seiss, C. F. 1897. "Hemiptera on Sunflowers." Ent. News 8:67.
- Helianthus. Walker, F. H. 1936. Observations on sunflower insects in Kansas. Kans. Ent. Soc. Jour. 9(1):16-25.
- Helianthus. Westdal, P. H. and C. F. Barrett. 1955. Insect pests of sunflowers in Manitoba. Can. Dept. Ag. Pub. 944:1-8.

Pages 7 through 9 missing from the bound original

IRIDACEAE

- Gladiolus tristis. Kelsheimer, E. G. 1956. Insects and other pests of gladiolus. Fla. Ag. Expt. Cir. S-91:1-24.
- Iris versicolor. Needham, James G. 1900. The fruiting of the blue flag (Iris versicolor L.). Am. Nat. 34(401):361-386.
- Iris. Van de Water, L. 1955. Insect pests and diseases of iris and daylily. Plants and Gard. 11(1):57-62 (see also Hemerocallis, Liliaceae).

JUGLANDACEAE

- Carya illinoensis. Moznette, G. F., T. L. Bissell, H. S. Adair. 1931. Insects of the pecan and how to combat them. U. S. Dept. Ag. Farmers' Bul. 1654:59 pp.
- Carya illinoensis. Moznette, G. F. et al. 1940. Insects and diseases of the pecan and their control. U. S. Dept. Ag. Farmers' Bul. 1829:70pp.
- Carya glabra. Blackman, M. W., H. H. Stage. 1924. On the succession of insects living in the bark and wood of dying, dead and decaying hickory. N. Y. State Col. Forestry Tech. Pub. 17 (v. 24, No. 22):3-35.
- Juglans. Barrett, R. E. 1932. An annotated list of the insects and arachnids affecting the various species of walnuts or members of the genus Juglans. Calif. Univ. Pubs. Ent. 5:275-309.

LAURACEAE

- Persea americana. McKenzie, H. L. 1935. Biology and control of avocado insects and mites. Calif. Ag. Expt. Sta. Bul. 592:48pp.
- Persea americana. Moznette, G. F. 1919. Annotated list of the injurious and beneficial insects of the avocado in Florida. Fla. Buggist 3(3):45-48.

LEGUMINOSAE

- Amorpha fruticosa. Brandhorst, Carl. T. 1961. The microcommunity associated with Amorpha fruticosa L. Gall of Walshia amorphella Clemens. Ent. Soc. Am. North Cent. Branch. Proc. 16:13-14.
- Astragalus & oxytropis. Chittenden, F. H. 1908. Insects injurious to the loco weed. U. S. Bur. Ent. Bul. 64(5):33-42.
- Baptisia tinctoria. Frost, S. W. 1945. Insects feeding on indigo, Baptisia. N. Y. Ent. Soc. Jour. 53:219-225.

Cercis canadensis. Parker, R. L. 1938 (1939). Insects which attack the redbud. Kans. State Hort. Soc. Bien. Rep. 45:239-242.

Glycine max. Balduf, W. V. 1923. The insects of the soybean in Ohio. Ohio Ag. Expt. Sta. Bul. 366:147-181.

Glycine max. Myers, C. V. 1940. Insects inhabiting soybean fields. Master's thesis, University of Illinois, Urbana, Illinois. 69 pp.

Lupinus polyphyllus. Rockwood, L. P. 1951. Notes on insects associated with Lupinus polyphyllus Lindl. in the Pacific Northwest. Pan-Pacific Ent. 27(4):149-156.

Medicago sativa. Dean, George A. 1916. Insects injurious to alfalfa. Kans. State Col. Ag. Ext. Bul. 5:1-36.

Melilotus alba. Stewart, M. A. 1930. The insect visitants and inhabitants of Melilotus alba. N. Y. Ent. Soc. Jour. 38:43-46.

Miscellaneous. Guppy, J. C. 1958. Insect surveys of clovers, alfalfa, and birdsfoot trefoil in Eastern Ontario. Can. Ent. 90(9):523-531.

Oxytropis. See Astragalus.

Robinia pseudoacacia. Schwarz, E. A. 1891. Coleoptera on black locust (Robinia pseudoacacia). Ent. Soc. Wash. Proc. 2(1):73-76.

Trifolium. Webster, F. M. 1882. Clover insects. Am. Nat. 16:746.

Trifolium pratense. Niemczyk, H. D. and G. E. Guyer. 1961. A survey of insects infesting red clover heads. Ent. Soc. of Amer. North Central Branch Proc. vol. 16:47-48.

Vigna sinensis. Bissell, T. L. 1938. The host plants and parasites of the cowpea curculio and other legume infesting weevils. Jour. Econ. Ent. 31(4):534-536.

Vigna sinensis. Bissell, T. L. 1940. Curculionidae, Bruchidae, Lepidoptera and their parasites infesting the seed pods of cowpea and various wild plants. Jour. Econ. Ent. 33(6):844-847.

LEMNACEAE

Lemna minor. Scotland, M. B. 1934. The animals of the Lemna association. Ecol. 15:290-294.

Lemna minor. Scotland, M. B. 1940. Review and summary of studies of insects associated with Lemna minor. N. Y. Ent. Soc. Jour. 48:319-333.

LILIACEAE

Yucca filamentosa. 1892. Townsend, C. H. T. Insects frequenting Yucca blooms. Zoe 3(2):113-115.

Hemerocallis. Van de Water, L. 1955. Insect pests and diseases of iris and daylily. Plants and Gard. 11(1):57-62, (see also Iridaceae).

LORANTHACEAE

Miscellaneous. Gill, Lake S. and F. G. Hawksworth. 1961. The mistletoes, a literature review. U. S. Dept. Ag. Tech. Bul. 1242:87 pp.

Phoradendron flavescens. Tucker, E. S. 1922. Studies of insects associated with the American mistletoe. Kans. Acad. Sci. Trans. 30:143-170.

Phoradendron flavescens. Schwarz, E. A. 1901. On the insect fauna of the mistletoe. Ent. Soc. Wash. Proc. 4:392-394.

MALVACEAE

Gossypium spp. Folsom, J. W. 1936. Notes on little-known cotton insects. Jour. Econ. Ent. 29(2):282-285.

Gossypium spp. Gaines, J. C. 1959. Cotton Insects. Tex. Ag. Ext. Serv. Bul. 933:1-16.

Gossypium spp. Hargreaves, H. 1948. List of recorded cotton insects of the world. Lond. Commonwealth Inst. Ent. 1-50.

Gossypium spp. Little, V. A. and D. F. Martin. 1942. Cotton insects of the United States. Burgess Pub. Co. 1-130.

Gossypium spp. Okumura, George T. 1961. Identification of lepidopterous larvae attacking cotton. Calif. Dept. Ag. Sp. Pub. 282:3-80.

Gossypium spp. Smith, G. L. 1942. California cotton insects. Calif. Ag. Exp. Sta. Bul. 660:1-50.

Gossypium spp. Telford, A. D. 1957. Arizona cotton insects. Ariz. Ag. Exp. Sta. Bul. 286:1-60.

Hibiscus moscheutos. Weiss, H. B. and E. L. Dickerson. 1919. Insects of the swamp rose-mallow, Hibiscus moscheutos L., in New Jersey. N. Y. Ent. Soc. Jour. 27:39-68.

NYCTAGINACEAE

Mirabilis nyctaginea. Balduf, W. V. and Clifford Wester. 1962. The Mirabilis-insect community in Illinois. Acad. Sci. Ill. Trans. 55(1):In press.

Mirabilis nyctaginea. Wester, Clifford. 1956. Comparative bionomics of two species of Heliodines or Mirabilis. Ent. Soc. Wash. Proc. 58(1):43-46.

Mirabilis nyctaginea. Wester, Clifford. 1956. Notes on the bionomics of Onychobaris subtonsa Leconte on Mirabilis. Ent. Soc. Wash. Proc. 58(2):105-108.

Mirabilis nyctaginea. Wester, Clifford. 1956. Notes on the bionomics of the natural enemies of the insects on Mirabilis. Ent. Soc. Wash. Proc. 58(5):283-286.

NYMPHAEEAE

Nymphaea. Wilson, G. F. 1928. Some pests of waterlilies. Roy. Hort. Soc. Jour., ser. 2,53:81-91.

ONAGRACEAE

Oenothera biennis. Dickerson, E. L. and H. B. Weiss. 1920. The insects of the evening primroses in New Jersey. N. Y. Ent. Soc. Jour. 28:32-74.

ORCHIDACEAE

Miscellaneous. Bingham, A. J. 1958. A simplified pest control system. Am. Orchid Soc. Bul. 27(10):670-671.

Miscellaneous. Carter, Walter. 1944. Some insects and related pests of orchids. Pacific Orchid Soc. Bul. 3(4):Reference not seen.

Miscellaneous. Darwin, Charles. 1862. On the various contrivances by which British and foreign orchids are fertilized by insects. John Murray, London. 360 pp.

Miscellaneous. Darwin, Charles. 1869. Notes on the fertilization of orchids. Ann. and Mag. Nat. Hist., 4th Ser. 4(21):141-158.

Miscellaneous. Darwin, Charles. 1877. The various contrivances by which orchids are fertilized by insects (2nd ed. revised). D. Appleton & Co., New York. 300 pp.

Miscellaneous. Jefferson, R. N. and F. S. Morishita. 1956. Orchid pests and their control. Am. Orchid Soc. Bul. 25(2):107-116.

Miscellaneous. Nishida, T. and W. W. Boyle. 1957. Insect and mite pests of orchids. Hawaii Ag. Expt. Sta. Farm Sci. 6(2):7-8.

Miscellaneous. Pring, G. H. 1944. Some orchid insect pests. Mo. Bot. Gard. Bul. 32:103-111.

Miscellaneous. Pritchard, A. E. 1959. Orchid pests and their control, Pp. 459-475. In the Orchids by C. L. Withner (Ronald Press, N. Y.).

Miscellaneous. Swezey, O. H. 1945. Insects associated with orchids.
Hawaii Ent. Soc. Proc. 12(2):343-403.

Miscellaneous. Weiss, Harry B. 1917. Some unusual orchid insects
(Hem., Lep., Dip., Col.) Ent. News 28(1):24-29.

PALMAE

Miscellaneous. Lepesme, P. 1947. Les insectes des palmiers. Lechevalier.
Paris. 903 pp.

PINACEAE

Abies. Fichter, Edson. 1939. An ecological study of Wyoming spruce-fir
forest arthropods with special reference to stratification.
Ecol. Monog. 9(2):183-215.

Larix laricina. Blackman, M. W. and H. H. Stage. Notes on insects bred
from the bark and wood of the American larch Larix laricina
(plu Roc.) Koch. N. Y. State Col. Forestry, Syracuse Univ.
Tech. Pub. 10:11-115.

Larix laricina. Swaine, J. M. 1911. Some insects of the larch. Ont.
Ent. Soc. Rep. 41:81-88.

Miscellaneous. Miller, J. M. 1914. Insect damage to the cones and seeds
of Pacific coast conifers. U. S. Dept. Ag. Bul. 95:7 pp.

Miscellaneous. Ross, D. A. 1958. A list of cone and seed insects of
interior British Columbia. Ent. Soc. Brit. Columbia Proc.
55:30-31.

Miscellaneous. Taylor, R. L. 1928. The arthropod fauna of coniferous
leaders weeviled by Pissodes strobi (Peck.). Psyche 35:217-
225.

Picea. See Abies. Fichter, Edson. 1939.

Picea. Brown, A. W. A. 1941. Foliage insects of spruce in Canada. Can.
Dept. Ag. Tech. Bul. 31:1-29.

Picea excelsa. See Miscellaneous. Taylor, 1928.

Pinus banksiana. Butcher, J. W. and A. C. Hodson. 1949. Biological and
ecological studies on some lepidopterous bud and shoot insects
of jack pine (Lepidoptera, Olethreutidae). Can. Ent.
81(7):161-173.

Pinus edulis. Little, E. L. 1943. Common insects on pinyon (Pinus
edulis) N. Y. Ent. Soc. Jour. 51(4):239-252.

- Pinus ponderosa v. jeffreyi. Lange, W. H. 1937. An annotated list of the insects, mostly Coleoptera, associated with Jeffrey pine in Lassen National Forest, California. Pan-Pacific Ent. 13(4):172-175.
- Pinus resinosa & strobis. Thomas, J. B. 1955. Notes on insects and other arthropods in red and white pine logging slash. Can. Ent. 87(8):338-344.
- Pinus strobis. See Miscellaneous. Taylor, 1928.
- Pinus sylvestris. See Miscellaneous. Taylor. 1928.
- Pinus virginiana. Howden, H. F. and G. B. Vogt. 1951. Insect communities of standing dead pine (Pinus virginiana Mill.) Ent. Soc. Amer. Ann. 44(4):581-595.
- Pinus. Ramsey, Helen. 1941. Fauna of pine bark. Elisha Mitchell Sci. Soc. Jour. 57:91-97.
- Pinus. Savely, H. E. 1939. Ecological relations of certain animals in dead pine and oak logs. Ecol. Monog. 9(3):323-385.
- Pinus. Struble, G. R. 1930. The biology of certain Coleoptera associated with bark beetles in western yellow pines. Calif. Univ. Pubs. Ent. 5:105-134.
- Pinus spp. Thatcher, Robert C. 1960. Bark beetles affecting southern pines: a review of current knowledge. Occasional paper 180 So. For. Exp. Sta., U.S.D.A. 25 pp.
- Pseudotsuga menziesii. Bedard, W. D. 1938. An annotated list of the insect fauna of Douglas Fir (Pseudotsuga mucronata Rafinesque) in the Northern Rocky Mountain Region. Can. Ent. 70(9):188-197.
- Sequoia and Sequoiadendron. DeLeon, Donald. 1952. Insects associated with Sequoia sempervirens and Sequoia gigantea in California. Pan-Pacific Ent. 28(2):75-91.

PONTEDERIACEAE

- Pontederia cordata. Hazen, T. E. 1917. The trimorphism and insect visitors of Pontederia. Torrey Bot. Club Mem. 17:459-484.

RANUNCULACEAE

- Ranunculus. Linsley, E. G. and J. W. Mac Swain. 1959. Ethology of some Ranunculus insects with emphasis on competition for pollen. Calif. Univ. Pubs. Ent. 16(1):1-45.

RHAMNACEAE

- Ceanothus. Banks, N. 1912. At the Ceanothus in Virginia. Ent. News 23:102-110.

ROSACEAE

- Crataegus. Wellhouse, W. H. 1922. The insect fauna of the genus Crataegus. N. Y. State Ag. Expt. Sta. Mem. 56:1041-1136.
- Malus. Phillips, E. F. 1933. Insects collected on apple blossoms in western New York. Ag. Res. Jour. 46:851-862.
- Rosa. Balduf, W. V. 1959. Obligatory and facultative insects in rose hips. Ill. Biol. Monog. 26:1-194.
- Rosa. Chittenden, F. H. 1901. Some insects injurious to the violet, rose, and other ornamental plants. (See also Violaceae for citation.)
- Rubus. Tillyard, R. J. 1927. Insect control of noxious weeds: joint scheme initiated against blackberry and other species. New Zeal. Jour. Ag. :7 pp. (Reference not seen.)
- Rubus and Spiraea. Blackman, M. W. 1918. On the insect visitors to the blossom of wild blackberry and wild spiraea—a study in seasonal distribution. N. Y. State Col. Forestry, Syracuse Univ. Tech. Pub. 10:119-144.

RUBIACEAE

- Cephalanthus occidentalis. Needham, J. G. 1903. Button-Bush insects. Psyche 10:22-31.

RUTACEAE

- Citrus. Hubbard, H. G. 1885. Insects of the orange. U. S. Gov't. Printing Office. Washington. 227 pp.
- Citrus. Muma, M. H., A. G. Selhime, H. A. Denmark. 1961. An annotated list of predators and parasites associated with insects and mites on Florida Citrus. Fla. Univ. Ag. Expt. Sta. Bul. 634:1-39.
- Citrus. Quayle, Henry J. 1938. Insects of citrus and other subtropical fruits. Comstock Pub. Co., Ithaca, N. Y. 583 pp.
- Citrus. Watson, J. R. 1918. Insects of a citrus grove. Fla. Univ. Ag. Expt. Sta. Bul. 148:165-267.

SALICACEAE

- Populus. Young, Robert A. 1906. Insects affecting the poplar. Columbus Hort. Soc. Proc. 1906:68-82. (Reference not seen.)

Salix. Walsh, B. D. 1864. On the insects Coleopterous, Hymenopterous, and Dipterous inhabiting the galls of certain species of willow. Ent. Soc. Phila. Proc. 3:543-641.

SARRACENIACEAE

Sarracenia flava. Goodnight, C. J. 1940. Insects taken by the southern pitcher plant. Ill. State Acad. Sci. Trans. 33:213.

Sarracenia. Hubbard, H. G. 1896. Insects of the pitcher plant. Ent. Soc. Wash. Proc. 3:314-316.

Sarracenia. Jones, F. M. 1921. Pitcher plants and their moths. The influence of insect-trapping plants on their insect associates. Am. Mus. Nat. Hist. Jour. 21(3):297-316.

Sarracenia. Wray, D. L. and C. S. Brimley. 1943. The insect inquilines and victims of pitcher plants in North Carolina. Ent. Soc. Am. Ann. 36(1):128-137.

SCROPHULARIACEAE

Linaria vulgaris. Smith, J. M. 1959. Notes on insects, especially Gymnaetron spp., associated with toadflax, Linaria vulgaris Mill. in North America. Can. Ent. 91(2):116-121.

Scrophularia. Cockerell, T. D. A. 1903. Insect visitors of Scrophularia. Torreyia 3:40.

Scrophularia lanceolata. Berry, E. W. 1903. Insect visitors of Scrophularia leporella Bicknell. Torreyia 3:8-9.

Verbascum thapsus. McAtee, W. L. 1924. Mullein rosettes as winter shelters for insects. Jour. Econ. Ent. 17:414-415.

SOLANACEAE

Nicotiana. Nettles, W. C. and J. M. Lewis. 1954. Tobacco insects and diseases. Clemson Ag. Col. S. C. Ext. Serv. Bul. 109:1-54.

Solanum. Webster, R. L. 1915. Potato insects. Iowa State Col. Ag. Expt. Sta. Bul. 155:359-420.

THEACEAE

Camellia. English, L. L. and G. F. Turnipseed. 1940. Insect pests of azaleas and camellias and their control. Ala. Ag. Expt. Sta. Cir. 84:18 pp. (See Ericaceae)

TILIACEAE

Tilia americana. Gibson, Arthur. 1903. Basswood, or linden, insects. Ent. Soc. Ont. Ann. Rept. 34:50-61.

Tilia americana. Townsend, C. H. T. 1886. Coleoptera found in dead trunks of Tilia americana L. in October. Can. Ent. 18:65-68.

TYPHACEAE

Typha. Claassen, P. W. 1921. Typha insects: their ecological relationships. N. Y. (Cornell) Ag. Expt. Sta. Mem. 47:457-531.

ULMACEAE

Ulmus. Hoffman, C. H. 1940. Additions to annotated list of insects reared from elm bark and wood. Brooklyn Ent. Soc. Bul. 35(2):54-63.

Ulmus. Hoffmann, C. H. 1942. Annotated list of elm insects in the U. S. U. S. Dept. Ag. Misc. Pub. 466:20 pp.

Ulmus americana. Pechuman, L. L. 1937. An annotated list of insects found in the bark and wood of Ulmus americana L. in New York state. Brooklyn Ent. Soc. Bul. 32(1):8-21.

VIOLACEAE

Viola. Chittenden, F. H. 1901. Some insects injurious to the violet, rose, and other ornamental plants. U. S. Bur. Ent. Bul 27: 114 pp. (See ROSACEAE)

VITACEAE

Vitis. Gentner, L. G. 1925. Some important grape insects. Mich. Ag. Expt. Sta. Spec. Bul. 148:19 pp.

SECTION II. THE PRINCIPAL WORKS OF CHARLES ROBERTSON

1886. Notes on the mode of pollination of Asclepias. Bot. Gaz. 9(10):262-269.
1887. Insect relations of certain Asclepiads. I, II, Bot. Gaz. 12(9):207-216; 12(10):244-250.
1889. Flowers and Insects. I - III. Bot. Gaz. 14(5):120-126; 14(7):172-178; 14(12):297-304.
1890. Flowers and Insects. IV, V. Bot. Gaz. 15(4):79-84; 15(8):199-204.
1890. Flowers and Insects-Umbelliferae. Acad. Sci. St. Louis Trans. 5:449-460
1891. Flowers and Insects. VI. Bot. Gaz. 16:65-71.
1891. Flowers and Insects, Asclepiadaceae to Scrophulariaceae. Acad. Sci. St. Louis Trans. 5:569-598.
1892. Flowers and Insects. VII-IX. Bot. Gaz. 17(3):65-71; 17:173-179; 17(9):269-276.

1892. Flowers and Insects-Labiatae. Acad. Sci. St. Louis Trans. 6:101-131.
1893. Flowers and Insects. X, XI. Bot. Gaz. 18:47-54; 18:267-274.
1894. Flowers and Insects. XII. Bot. Gaz. 19:103-112.
1894. Flowers and Insects-Rosaceae and Compositae. Acad. Sci. St. Louis Trans. 6:435-480.
1895. Flowers and Insects. XIII, XIV. Bot. Gaz. 20:104-110; 20:139-149.
1896. Flowers and Insects. XV, XVII. Bot. Gaz. 21:72-81; 21:154-165; 21:266-274.
1896. Flowers and Insects. Acad. Sci. St. Louis Trans. 7:151-179.
1898. Flowers and Insects. XVIII. Bot. Gaz. 25:229-245.
1899. Flowers and Insects. XIX. Bot. Gaz. 28:27-45.
1927. Florida Flowers and Insects. Acad. Sci. St. Louis Trans. 25(8):277-324.
1928. Flowers and Insects. XXV. Ecol. 9(4):505-526.
1929. Flowers and Insects. XXVI. Sci. Press Printing Co., Lancaster, Pa. 221 pp.

SECTION III. GENERAL REFERENCES TO PHYTOPHAGOUS INSECTS

- Brown, W. J. 1959. Taxonomic problems with closely related species. Ann. Review Ent. 4:77-98.
- Brandhorst, C. G. 1943. A study of the relationship existing between certain insects and some native western Kansas forbs and weedy plants. Kans. Acad. Sci. Trans. 46:164-175.
- Brues, C. T. 1924. The specificity of food plants in the evolution of phytophagous insects. Am. Nat. 58(655):127-144.
- Brues, C. T. 1936. Aberrant feeding behavior among insects and its bearing on the development of specialized food habits. Quarterly Rev. Biol. 11:305-319.
- Brues, C. T. 1946. Insect Dietary. Harvard University Press, 466 pp.
- Clements, F. E. and F. L. Long. 1923. Experimental pollination: an outline of the ecology of flowers and insects. Carnegie Inst. Wash. Pub. 336. 274 pp.
- Cosens, A. (1912) 1913. A contribution to the morphology and biology of insect galls. Can. Inst. Toronto Trans. 9:297-387.
- Craighead, F. C. 1950. Insect enemies of eastern forests. U. S. Dept. Ag. Misc. Pub. 657. 679 pp.

- Crosby, C. R. and M. D. Leonard. 1918. Manual of vegetable-garden insects. The Macmillan Co. 391 pp.
- Dethier, V. G. 1937. Gustation and olfaction in Lepidopterous larvae. Biol. Bul. 72:7-23.
- Dethier, V. G. 1941. Chemical factors determining the choice of food plants by Papilio larvae. Amer. Nat. 75:61-73.
- Dethier, V. G. 1947. Chemical insect attractants and repellents. The Blakiston Co., Philadelphia, 289 pp.
- Dozier, H. L. 1920. An ecological study of hammock and piney woods insects in Florida. Ent. Soc. Amer. Ann. 13(4):325-380.
- Essig, E. O. 1958. Insects and mites of western North America. The Macmillan Company, New York. 1050 pp.
- Felt, E. P. 1903. Insects affecting forest trees. J. B. Lyon Co., Albany, New York. 479-534.
- Felt, E. P. 1905-1906. Insects affecting park and woodland trees. N. Y. State Mus. Mem. 8, 2 vols. 877 pp.
- Felt, E. P. 1909. Injurious and other insects. 24th Rept. State Entomologist 1908. N. Y. State Mus. Bul. 134:5-159.
- Felt, E. P. 1918. Key to American insect galls. N. Y. State Mus. Bul. 200:1-310.
- Felt, E. P. 1924. Manual of tree and shrub insects. The Macmillan Co. 382 pp.
- Felt, E. P. 1940. Plant galls and gall makers. Ithaca, N. Y. 364 pp.
- Fenton, F. A. 1952. Field crop insects. Macmillan. 405 pp.
- Gunderson, A., and G. T. Hastings. 1944. The interdependence of plant and animal evolution. Sci. Monthly 59:63-72.
- Hatch, Melville H. 1938. A bibliographical catalogue of the injurious arachnids and insects of Washington. Univ. Wash. Publs. Biol. 1(4):163-223.
- Hayes, W. P. 1927. Prairie Insects. Ecol. 8(2):238-250.
- Hefley, H. M. 1937. The relations of some native insects to introduced food plants. Jour. Anim. Ecol. 6(1):138-144.
- Hendrickson, G. O. 1930. Studies on the insect fauna of Iowa prairies. Iowa State Col. Jour. Sci. 4(2):49-179.
- Hendrickson, G. O. 1931. Further studies on the insect fauna of Iowa prairies. Iowa State Col. Jour. Sci. 5(4):195-209.

- Houser, J. S. 1918. Destructive insects affecting Ohio shade and forest trees. Ohio Agr. Exp. Sta. Bul. 332:161-487.
- Kaltenbach, J. H. 1874. Die Pflanzenfeinde aus der Klasse Insekten. Stuttgart, J. Hoffmann. 846 pp.
- Keen, F. P. 1958. Cone and seed insects of western forest trees. U. S. Dept. of Ag. Tech. Bul. 1169:1-168.
- Knoll, F. 1922-23. Insekten und blumen. Experimentelle arbeiten zur verteilung unserer kenntnisse über die wechselbeziehungen zwischen pflanzen und tieren. Abh. zool.-bot. Ges. Wien (in Zool. Record) 12(1921):1-117; 12(1922):123-377.
- Macnay, C. G. and I. S. Creelman. 1958. List of insects and mites affecting tree fruits in Canada. Can. Dept. Ag. Res. Notes Ser. Ent. E-12. 38 pp.
- Macquart, J. 1854-1856. Les plantes herbacees d'Europe et leurs insectes. Lille. 3 vols.
- Marcovitch, S. 1917. Insects attacking weeds in Minnesota. Minn. State Ent. 16th Rep. for 1915-1916:135-152.
- McGaha, Y. J. 1952. The limnological relations of insects to certain aquatic flowering plants. Am. Micros. Soc. Trans. 71(4):355-381.
- Needham, J. G., S. W. Frost and B. H. Tothill. 1928. Leaf-mining insects. Williams & Wilkins. 351 pp.
- Osborn, H. and D. J. Knull. 1939. Meadow and pasture insects. Educator's Press. 288 pp.
- Painter, R. H. 1951. Insect resistance in crop plants. Macmillan, N. Y., 520 pp.
- Packard, A. S. 1890. Insects injurious to forest and shade trees. U. S. Ent. Comm. Fifth Rep.:1-955.
- Peterson, A. 1948. Larvae of insects. Part I. Lepidoptera and plant-infesting Hymenoptera. Edwards Bros., Columbus, Ohio, 315 pp.
- Peterson, A. 1951. Larvae of Insects. Part II. Coleoptera, Diptera, Neuroptera, Siphonaptera, Mecoptera, Trichoptera. Edwards Bros., Columbus, Ohio. 416 pp.
- Robertson, Charles. 1929. Flowers and insects. Science Press Printing Co., Lancaster, Pa. 221 pp. (also many other papers - see Vestal, 1935)
- Sanderson, E. D. 1921. Insect pests of farm, garden and orchard (2nd ed. rev.) John Wiley & Sons. 707 pp.
- Schedl, K. E. 1960. Insectes nuisibles aux fruits et aux graines. Publ. nat. Agron. Congo Belge Ser. Sci. 82:1-133. (Reference not seen)

- Shackleford, N. W. 1929. Animal communities of an Illinois Prairie. *Ecol.* 10:126-154.
- Slingerland, M. V. and C. R. Crosby. 1914. Manual of fruit insects. The Macmillan Co. 503 pp.
- Smith, V. G. 1928. Animal communities of a deciduous forest succession. *Ecol.* 9:479-500.
- Sweetman, Harvey L. 1958. The principles of biological control; inter-relation of hosts and pests and utilization in regulation of animal and plant populations. W. C. Brown Co., Dubuque, Iowa. 560 pp.
- Tillyard, R. J. 1927. Insect control of noxious weeds. *New Zeal. Jour. Ag.* 7:1-7.
- Trelease, W. 1881. Bibliographical Record. *Psyche* 3:248-258; 280-289.
- Vestal, A. G. 1913. An associational study of Illinois sand prairie. *Ill. State Lab. Nat. Hist. Bul.* 10:1-96.
- Vestal, A. G. 1935. Bibliography of the ecology of Illinois, Part 1. *Ill. State Acad. Sci. Trans.* 27(2):163-261.
- Ward, L. F. 1880. The relation between insects and plants, and the consensus in animal and vegetable life. *Am. Ent.* 3(2d ser. 1):63-67, 87-91.
- Weese, A. O. 1924. Animal ecology of an Illinois elm-maple forest. *Ill. Biol. Monog.* 9:7-93.
- Weiss, H. B. 1924. Insect food habits and vegetation. *Ohio Jour. Sci.* 24:100-206.
- Weiss, H. B. and E. West. 1924. Insects and plants of a dry woods in the pine barrens of New Jersey. *Ecol.* 5(3):241-253.
- Westcott, Cynthia. 1956. The gardener's bug book. Doubleday. 579 pp.

SECTION IV. FOOD HABITS OF INSECT ORDERS

COLEOPTERA

- Bargagli, Piero. 1883-87. Rassegna biologica di Rincofori Europei. *Soc. Ent. Bol. Ital.* XVI, XVII, XVIII, XIX. Firenze.
- Beutenmuller, W. M. 1890. On the food habits of North American Rhynchophora. *Can. Ent.* 22(10):200-203.
- Blatchley, W. S. 1910. An illustrated descriptive catalogue of the Coleoptera, or beetles, (exclusive of the Rhynchophora), known to occur in Indiana. Indianapolis. 1386 pp.

- Chamberlain, W. J. 1942. The bark and timber beetles of North America. Oreg. State Coll., Corvallis. 513 pp.
- Frost, S. W. 1924. The leaf-mining habit in the Coleoptera. Ent. Soc. Amer. Ann. 17(4):457-467.
- Glover, T. 1868. Food habits of beetles. Rep. Ag. Comm. for 1868:78-117.
- Lugger, Otto. 1884. Food plants of beetles bred in Maryland. Psyche 4:203-204.
- Peterson, A. 1951. See Section II.
- Pierce, W. D. 1907. On the biologies of the Rhynchophora of North America. Nebr. State Bd. Ag. Rep. of the Zoologist:245-319.
- Plumb, G. H. 1950. The adult feeding habit of some conifer-infesting weevils. Can. Ent. 82(3):53-57.
- Tuttle, D. M. 1952. Studies in the bionomics of Curculionidae. Univ. Ill. Dept. Ent. Unpub. thesis, 235 pp.
- Weiss, H. B. 1922. A summary of the food habits of North American Coleoptera. Am. Nat. 56(643):159-165.
- Whelan, D. B. 1936. Coleoptera of an original prairie area in eastern Nebraska. Kans. Ent. Soc. Jour. 9(4):111-115.
- Wolcott, A. B. and B. E. Montgomery. 1933. An ecological study of the Coleopterous fauna of a tamarack swamp. Am. Midland Nat. 14(2):113-168.

CURSORIA

- Roth, L. M. and E. R. Willis. 1960. The biotic associations of cockroaches. Smithsn. Inst. Misc. Collect. 141 (Pub. 4422):1-470.

DIPTERA

- Curran, C. H. 1934. The families and genera of North American Diptera. Ballou, N. Y. 512 pp.
- Frost, S. W. 1923. A study of the leaf-mining Diptera of North America. N. Y. (Cornell) Ag. Expt. Sta. Mem. 78:1-228.
- Green, C. T. 1917. A contribution to the biology of North American Diptera. Ent. Soc. Wash. Proc. 19:146-161.
- Montgomery, B. E. 1957. The anthophilous insects of Indiana. 2. A preliminary list of the Diptera collected from blossoms. Ind. Acad. Sci. Proc. 67:160-170.

Peterson, A. 1951. See SECTION II.

Steyskal, George C. (1949) 1951. The dipterous fauna of tree trunks. Mich. Acad. Sci., Arts, Letters. Papers 35:121-134.

Townsend, C. H. T. 1893. A general summary of the known larval food habits of the Acalyptrate Muscidae. Can. Ent. 25(1):10-16.

HEMIPTERA

Ball, E. D. 1932. The food plants of the leafhoppers. Ent. Soc. Amer. Ann. 25(3):497-501.

Blatchley, W. S. 1926. Heteroptera, or true bugs of eastern North America, with especial reference to the faunas of Indiana and Florida. Indianapolis, 1116 pp.

Britton, W. E. 1923. The Hemiptera, or sucking insects of Connecticut. Guide to the insects of Conn. Conn. State Geol. and Nat. Hist. Survey Bul. IV:1-807.

Butler, E. A. 1923. A biology of the British Hemiptera-Heteroptera. Witherby, London. 682 pp.

Doering, K. C. 1942. Host plant records of Cercopidae in North America, north of Mexico. (Homoptera) Kans. Ent. Soc. Jour. 15(2/3):65-92.

Hottes, Frederick C. and Theodore H. Frison. 1931. The plant lice, or Aphidae, of Illinois. Ill. Nat. Hist. Survey Bul. 19(3):121-447.

Kirkaldy, G. W. 1909. Catalogue of the Hemiptera-Heteroptera with biological and anatomical references, lists of foodplants and parasites, etc. Berlin, F. L. Dames. 392 pp.

Knight, Harry H. 1941. The plant bugs, or Miridae, of Illinois. Ill. Nat. Hist. Surv. Bul. 22(1):1-234.

Osborn, Herbert. 1912. Leafhoppers affecting cereals, grasses, and forage crops. U. S. D. A. Bur. Ent. Bul. 108:1-123.

Riddick, Eloise. 1955. A list of Florida plants and the scale-insects which infest them. St. Plant Board of Fla. Bul. 7:1-78.

Weiss, H. B. 1921. A summary of the food habits of North American Hemiptera. Brooklyn Ent. Soc. Bul. 16(5):116-118.

HYMENOPTERA

Frost, S. W. 1925. The leaf-mining habit in the Hymenoptera. Ent. Soc. Amer. Ann. 18(3):319-414.

- Krombein, Karl V., et al. 1958. Hymenoptera of America north of Mexico, synoptic catalogue. First supplement. U. S. Dept. Ag. Monog. 2:1-305.
- Lovell, John H. 1913. The origin of the oligotropic habit among bees (Hymen.) Ent. News 24:104-112.
- MacGillivray, A. D. 1914. The immature stages of the Tenthredinoidea. Ent. Soc. Ontario. Ann. Rept. 44:54-75.
- Mitchell, T. B. 1960. Bees of the Eastern United States, Vol. I. North Car. Ag. Expt. Sta. Tech. Bul. 141:1-538.
- Muesebeck, C. F. W., et al. 1951. Hymenoptera of America north of Mexico, synoptic catalogue. U. S. Dept. Ag. Ag. Monog. 2:1-1420.
- Peterson, A. 1948. See SECTION II.
- Viereck, H. L., et al. 1916. Guide to the insects of Connecticut, Part III. The Hymenoptera, or wasp-like insects of Connecticut. Conn. State Geol. and Nat. Hist. Survey Bul. 22:1-824.
- Weld, Lewis H. 1959. Cynipid Galls of the eastern United States, Ann Arbor, Michigan. 124 pp.
- Yuasa, Hachiro. 1922. A classification of the larvae of the Tenthredinoidea. Ill. Biol. Monogr. 7(4):325-490.

LEPIDOPTERA

- Allan, P. B. M. 1949. Larval foodplants. A vade-mecum for the field Lepidopterist. Watkins and Doncaster, London. 126 pp.
- Beutenmuller, W. M. 1890. Catalogue of Lepidoptera found within fifty miles of New York City with their food plants. N. Y. Acad. Sci. Ann. 5, Art. 3:199-230.
- Brues, C. T. 1920. The selection of food plants by insects, with special reference to Lepidopterous larvae. Am. Nat. 54(633):313-332.
- Clark, A. H. and L. F. Clark. 1951. The butterflies of Virginia. Smithsn. Inst. Misc. Collect. 116(7):1-239.
- Clarke, J. F. G. 1952. Host relationships of moths of the genera Depressaria and Agonopterix, with descriptions of new species. Smithsn. Inst. Collect. 117(7):1-20.
- Crumb, S. E. 1956. The larvae of the Phalaenidae. U. S. Dept. Ag. Tech. Bul. 1135:1-356.
- Davenport, D. and V. G. Dethier. 1937. Bibliography of the described life-histories of the Rhopalocera of America north of Mexico. Ent. Amer. 17(4):155-194.

- Ehrlich, Paul R. & Anne H. Ehrlich. 1961. How to Know the Butterflies. Wm. C. Brown Co., Dubuque, Iowa. 262 pp.
- Forbes, W. T. M. 1920. The Lepidoptera of New York and neighboring states. Primitive forms, Microlepidoptera, Pyraloids, Bombyces. Cornell Univ. Ag. Expt. Sta. Mem. 68:1-729. Part II, 1948. Geometridae, Sphingidae, Notodontidae, Lymantriidae. Mem. 274:1-263. Part III, 1954. Noctuidae. Mem. 329:1-433.
- Klots, A. B. 1951. A field guide to the butterflies. Houghton Mifflin, Boston, 349 pp.
- Peterson, A. 1948. See SECTION II.
- Scudder, S. H. 1889. Classified list of food plants of American Butterflies. Psyche 5:274-278.

ORTHOPTERA

- Ball, E. D. 1936. Food plants of some Arizona grasshoppers. Jour. Econ. Ent. 29(4):679-684.
- Ball, E. D., E. R. Tinkham, R. Flock and C. T. Vorhies. 1942. The grasshoppers and other Orthoptera of Arizona. Ariz. Ag. Expt. Sta. Tech. Bul. 93:255-373.
- Fox, Henry. 1914. Notes on Orthoptera and habitats in the vicinity of Lafayette, Indiana. Ind. Acad. Sci. Proc. 1914:287-321.
- Isely, F. B. 1938. The relations of Texas Acrididae to plants and soils. Ecol. Monog. 8:551-604.
- Somes, M. P. 1914. The Acridiidae of Minnesota. Minn. Ag. Expt. Sta. Tech. Bul. 141:7-100.

THYSANOPTERA

- Bailey, Stanley F. 1957. The thrips of California Part I: suborder Terebrantia. Calif. Insect Survey Bul. 4(5):143-220.
- Knowlton, G. F. and W. L. Thomas. 1933. Food plants and distribution of some Utah Thysanoptera. Can. Ent. 65:114-117.
- Morgan, A. C. 1913. New genera and species of Thysanoptera, with notes on distribution and food plants. U. S. Natl. Mus. Proc. 46:1-55.
- Watson, J. R. 1923. Synopsis and catalog of the Thysanoptera of North America. Fla. Ag. Expt. Sta. Tech. Bul. 168:1-100.

Milton W. Sanderson and
John M. Kingsolver